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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A manufacturing method for a sealing material for a semiconductor device, which wherein the sealing material is a sealing material comprising a fluororubber as a rubber component, wherein: the fluororubber inevitably comprises a cured product of a vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer; and copolymerization ratios of respective monomers in the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer are such that: a content of vinylidene fluoride is in the range of from 25 to 70 mol %; a content of hexafluoropropylene is in the range of from 15 to 60 mol %; a content of tetrafluoroethylene is in the range of from 15 to 60 mol %; and a fluorine content in the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer is in the range of from 71.5 to 75 mass %, wherein the manufacturing method comprises a step of curing of the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer is performed by irradiation with ionizing radiation, and wherein the sealing material does not include an unsaturated polyfunctional compound without mixing a curing agent or a curing co-agent into the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer.

2. (canceled).

3. (currently amended) The manufacturing method for a

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sealing material for a semiconductor device according to claim 1, wherein a fluorine content of the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer is in the range of from 72 to 74.5 mass %.

4. (currently amended) The manufacturing method for a sealing material for a semiconductor device according to claim 1, wherein an irradiation dose of the ionizing radiation is in the range of from 10 to 500 kGy.

5. (withdrawn) A sealing material for a semiconductor device, which is obtained by crosslinking, with ionizing radiation, a fluororubber preform comprising:

i) a fluororubber component (a) comprising a vinylidene fluoride/ hexafluoropropylene elastic copolymer and/or a vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer; and

ii) a non-elastic fluoro-resin component (b) comprising a vinylidene fluoride (co)polymer in composition of the fluoro-resin component (b) of 1 to 50 parts by mass relative to 100 parts by mass of the fluororubber component (a).

6. (withdrawn) The sealing material for a semiconductor device according to claim 5, wherein a copolymerization ratio of respective monomers in the vinylidene fluoride/ hexafluoropropylene elastic copolymer is vinylidene fluoride/ hexafluoropropylene = (50 to 95)/(5 to 50) (in mol %).

7. (withdrawn) The sealing material for a semiconductor device according to claim 5 or 6, wherein a copolymerization ratio of respective monomers in the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer

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is vinylidene fluoride/ hexafluoropropylene/
tetrafluoroethylene = (20 to 80)/(10 to 70)/(10 to 70) (in
mol %).

8. (withdrawn) The sealing material for a semiconductor device according to claim 5 or 6, wherein a fluorine content of the fluororubber component (a) is in the range of from 65 to 75 mass %.

9. (withdrawn) The sealing material for a semiconductor device according to claim 5 or 6, wherein a ratio of the fluororubber component (a) and the fluororesin component (b) is 5 to 20 parts by mass of the fluororesin component (b) relative to 100 parts by mass of the fluororubber component (a).

10. (withdrawn) The sealing material for a semiconductor device according to claim 5 or 6, wherein an irradiation dose of the ionizing radiation is in the range of from 10 to 500 kGy.

11. (withdrawn) A manufacturing method for a sealing material for a semiconductor device, comprising the steps of:

i) mixing a fluororubber component (a) with a non-elastic fluororesin component (b) to obtain a mixture, wherein the fluororubber component (a) comprises a vinylidene fluoride/ hexafluoropropylene elastic copolymer and/or a vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer, wherein the non-elastic fluororesin component (b) comprises a vinylidene fluoride (co)polymer, wherein 100 parts by mass of the fluororubber component (a) is mixed with 1 to 50 parts by

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mass of the non-elastic fluoro-resin component (b) at a temperature of a melting point of the fluoro-resin component (b) or higher;

- ii) preforming the mixture to obtain a preform; and
- iii) irradiating the preform with ionizing radiation.

12. (currently amended) The manufacturing method for a sealing material for a semiconductor device according to claim 4, wherein the content of vinylidene fluoride is in a range of 29 to 36 mol %; the content of hexafluoropropylene is in a range of 26 to 28 mol %; the content of tetrafluoroethylene is in a range of 38 to 43 mol %; and the fluorine content in the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer is in a range of 72.2 to 75 mass %.

13. (new) A sealing material for a semiconductor device, wherein the sealing material is a sealing material comprising a fluororubber as a rubber component, wherein: the fluororubber inevitably comprises a cured product of a vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer; and copolymerization ratios of respective monomers in the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer are such that: a content of vinylidene fluoride is in the range of from 25 to 70 mol %; a content of hexafluoropropylene is in the range of from 15 to 60 mol %; a content of tetrafluoroethylene is in the range of from 15 to 60 mol %; and a fluorine content in the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer is in the range of from 71.5 to 75 mass %, wherein the vinylidene fluoride/ hexafluoropropylene/ tetrafluoroethylene elastic copolymer is cured by

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irradiation with ionizing radiation without mixing a curing agent or a curing co-agent into the vinylidene fluoride/hexafluoropropylene/ tetrafluoroethylene elastic copolymer.

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